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APPLICATION NO.	FILING DATE	FIRST NAM	ED INVENTOR		ATTORNEY DOCKET NO.
09/208,963	12/10/98	3 LIU		J.	97-2739
		IM22/051	, T		EXAMINER
CHARLES @ BUCKWALTER			-	GRAY, T	•
ALUMINUM COMPANY OF AMERICA				ART UNIT	PAPER NUMBER
ALCOA TECHN 100 TECHNIO ALCOA CENTE	CAL DRIVE			1742 DATE MAILED:	6

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

	Application No.	Applicant(s)					
. Office Action Summary	09/208,963	LIU ET AL.					
omee storen cummary	Examiner	Art Unit					
	Tamara N Gray	1742					
The MAILING DATE of this communication appe	ears on the cover sheet with the co	rrespondence address					
Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION.	∕ IS SET TO EXPIRE <u>3</u> MONTH(S) FROM					
 Extensions of time may be available under the provisions of 37 after SIX (6) MONTHS from the mailing date of this communi If the period for reply specified above is less than thirty (30) day be considered timely. 	cation. s, a reply within the statutory minimum of	thirty (30) days will					
 If NO period for reply is specified above, the maximum statutory communication. 	period will apply and will expire SIX (6) N	MONTHS from the mailing date of this					
- Failure to reply within the set or extended period for reply will, by Status	y statute, cause the application to become	e ABANDONED (35 U.S.C. § 133).					
1) Responsive to communication(s) filed on							
_							
 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is 							
closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.					
Disposition of Claims							
4) Claim(s) 1-20 is/are pending in the application.							
4a) Of the above claim(s) is/are withdraw	wn from consideration.						
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1-20</u> is/are rejected.							
7) Claim(s) is/are objected to.							
8) Claims are subject to restriction and/or	election requirement.						
Application Papers							
9) The specification is objected to by the Examine	r.						
10) The drawing(s) filed on is/are objected to by the Examiner.							
11)☐ The proposed drawing correction filed on is: a)☐ approved b)☐ disapproved.							
12) The oath or declaration is objected to by the Ex	aminer.						
Priority under 35 U.S.C. § 119							
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d).							
a) All b) Some * c) None of the CERTIFI		` '					
1. received.		,					
2. received in Application No. (Series Code	/ Serial Number)						
3. received in this National Stage application	n from the International Bureau (F	PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list o	f the certified copies not received	l.					
14) Acknowledgement is made of a claim for domes	stic priority under 35 U.S.C. & 119	9(e).					
Attachment(s)							
 (5) Notice of References Cited (PTO-892) (6) Notice of Draftsperson's Patent Drawing Review (PTO-948) (7) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 	19) Notice of Informal F	(PTO-413) Paper No(s) Patent Application (PTO-152)					
(*) Information Disclosure Statement(s) (*10-1449) Paper No(s)	20) Other: .						

Application/Control Number: 09/208,963

Art Unit: 1742

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1, 3-16, and 18 rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. The specification of the invention fail to specify what the average values of the standard 2324-T39 alloy would be for the properties selected, therefore; it can not be determined whether the invention is an improvement. The average values of the standard 2324-T39 alloy could be submitted for further review.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

Claims 1-20 are rejected under 35 U.S.C. 102(b) as being anticipated by Karabin et al. Karabin et al teaches an aluminum alloy product consisting essentially of about 3.6 to 4.0 wt. % copper, about 1.0 to 1.6 wt. % magnesium, about 0.3 to 0.7 wt. % manganese, about 0.05 to 0.25 wt. % zirconium, the balance aluminum and incidental elements and impurities. It preferably include less than 0.05 wt. % of iron and 0.03 wt. % of silicon, and is substantially free of titanium which means it contains 0.03 wt. % or less (column 4 paragraph 2). It is inherent that 0% beryllium is within the instantly

Art Unit: 1742

Page 3

disclosed specified range. Karabin et al also teaches that the heat treatment temperature is between 900 and 935°C (column 6 paragraph 1) and that the copper preferred target is 4.0 to 4.2 wt % while the preferred target for magnesium is 1.15 to 1.5 (column 5 paragraph 1). In addition the aluminum alloy of Karabin et al is used in the structural component of an aerospace product specifically the wing of a commercial jet aircraft (column 3 paragraph 1). It would appear that the improvements of the Karabin et al invention are also between 5 to 7.5 % compared to the average values of standard 2324-T39 alloy disclosed in given prior art, showing that the instantly disclosed invention embraces the teachings of Karabin et al.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tamara N Gray whose telephone number is 703 305-0387. The examiner can normally be reached on mon-fri 8am-4:30pm.

The fax phone numbers for the organization where this application or proceeding is assigned are 703 308-4242 for regular communications and 703 305-3014 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703 308-0661.

Tamara Gray

Patent Examiner May 17, 2000

SCOTT KASTLER PRIMARY EXAMINED